Translation

PATENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference S48X8	FOR FURTHER ACTION	N See Form PCT/IPEA/416				
International application No. PCT/JP2004/009903	International filing date (day 06 July 2004 (06.0					
International Patent Classification (IPC) or n C23C 16/40, B01J 35/02, C01G	lational classification and IPC 23/07, C23C 16/455					
Applicant	MITOMO TITANIUM	CORPORATION				
This report is the international prelication Authority under Article 35 and transport in the international prelication.	minary examination report, es smitted to the applicant accor	stablished by this International Preliminary Examining ding to Article 36.				
2. This REPORT consists of a total of sheets, including this cover sheet.						
<u> </u>	3. This report is also accompanied by ANNEXES, comprising: a. (sent to the applicant and to the International Bureau) a total of sheets, as follows:					
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).						
sheets which suppersond the discussion of the discussion of the discussion of the suppersonal beautiful and the suppersonal be	losure in the international app	nich this Authority considers contain an amendment that goes plication as filed, as indicated in item 4 of Box No. I and the				
	indicated in the Supplementa	of (indicate type and number of electronic carrier(s)) a sequence listing and/or tables related thereto, in computer al Box Relating to Sequence Listing (see Section 802 of the				
4. This report contains indications re	elating to the following items:					
Box No. I Basis of the	report					
Box No. II Priority		the coulty inventive stan and industrial applicability				
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention						
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability						
1	citations and explanations supporting such statement					
Box No. VII Certain defects in the international application						
Box No. VIII Certain observations on the international application						
Date of submission of the demand	D	ate of completion of this report				
06 July 2004 (06.0°	7.2004)	02 June 2005 (02.06.2005)				
Name and mailing address of the IPEA/J	IP A	authorized officer				
Faccimile No	₁	Telephone No.				

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2004/009903

Box No. I	Bas	sis of the report
otherwi	ise indic	the language, this report is based on the international application in the language in which it was filed, unless cated under this item.
	This rep which is	port is based on translations from the original language into the following language, s language of a translation furnished for the purpose of:
ļ	int	ternational search (under Rules 12.3 and 23.1(b))
	pu	ublication of the international application (under Rule 12.4)
	in	ternational preliminary examination (under Rules 55.2 and/or 55.3)
furnish and ar	hed to the re not an	to the elements of the international application, this report is based on (replacement sheets which have been the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" the enternational application as originally filed/furnished
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		cription: , as originally filed/furnished
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Ш		, as originally filed/furnished
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		nence listing and/or any related table(s) — see Supplemental Box Relating to Sequence Listing.
3.	The a	mendments have resulted in the cancellation of:
] 🗀		
1	닠	the description, pages
1	닖	the claims, Nos.
1	님	the drawings, sheets/figs
i	\vdash	the sequence listing (specify):
1		any table(s) related to sequence listing (specify):
4.	made	report has been established as if (some of) the amendments annexed to this report and listed below had not been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box e 70.2(c)). the description, pages the claims, Nos. the drawings, sheets/figs the sequence listing (specify): any table(s) related to sequence listing (specify):
* If is	tem 4 aj	pplies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2004/009903

Box No. V Reasoned statement un citations and explanati		h regard to novelty, inventive step or industrial applicatement	ability;				
1. Statement							
Novelty (N)	Claims	1-16	YES				
	Claims		NO				
Inventive step (IS)	Claims	1-16	YES				
	Claims		NO				
Industrial applicability (IA)	Claims	1-16	YES				
	Claims		NO				
2. Citations and explanations (Rule 70.7) Document 1: JP, 2000-266902, A (Inax Corporation), September 29, 2000 (09.29.00) Document 2: JP, 61-50892, B2 (BFG Glassgroup), November 6, 1986 (11.06.86) Document 3: JP, 2000-64050, A (Asahi Glass Co., Ltd.), February 29, 2000 (02.29.00) Document 4: JP, 7-3463, A (Glaverbel), January 6, 1995 (01.06.95) Document 5: JP, 7-110994, B2 (Elf Atochem North America, Inc.), November 29, 1995 (11.29.95) Document 6: JP, 5-195230, A (Sumitomo Electric Industries, Ltd.), August 3, 1993 (08.03.93) Document 7: JP, 4-80371, A (Canon Inc.), March 13, 1992 (03.13.92) Document 8: JP, 9-59777, A (Sekisui Chemical Co., Ltd.), March 4, 1997 (03.04.97) (1) The inventions described in claims 1-8 appear to be novel and involve an inventive step over the documents cited in the ISR. None of the documents describes that "a hydrolysable metal compound vapor and a water vapor are mixed in advance, and the mixed vapor is brought into contact with a base within three seconds from the mixing," and this point could not be easily conceived of by a party skilled in the art based on any of the above documents. (2) The inventions described in claims 9-16 appear to be novel and involve and inventive step over the documents cited in the ISR. None of the documents describes "comprising a porous nozzle and slit nozzle, wherein the nozzles are disposed in a direction so that the spray streams therefrom meet," and this point could not be easily conceived of by a party skilled in the art based on any of the above documents.							